



# Food Chemistry laboratory development

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Amount - \$234,999

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## Priority Area

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- **The proposal focus on CREES mission to**
  - advance knowledge for agriculture
- **USDA strategic goal #1 and #4**
  - Enhance economic opportunities for agricultural producers
  - Improve the Nation's Nutrition Health

## Background

- CSULA 20,000 Students
- Nutritional Science BS and MS program
  - Very competitive CDP program
- Starting Food Science program
- BS FST proposal on the way
  - Schedule time of start Fall 2007.
- Two laboratories under construction in new science building –
  - Food chemistry and Food Processing

## Institutions and Individuals involved

- CSULA
- Dr. Zhongali Pan USDA, Albany CA
- Dr. Laura Calderon, CSULA
- Dr. Pera Jambazian, CSULA

## Objectives

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- Objective 1: Update Food Chemistry and Analysis Laboratory by adding three Instruments

## Equipments

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- Three new equipments will be purchased
  - LECO protein analyzer
  - Rancimat fat analyzer
  - Differential Scanning Calorimeter

## Research

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- Food proteins
- Nutraceuticals

## • Objective 2: Faculty Development

- Faculty will
  - Visit USDA Albany, CA to establish collaborative links
  - Attend workshops and meeting



## Objective 3: Student Involvement in Research and Training

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Students will -

- Help in teaching and research activities
- Participate and present research work in conferences and meeting
- Develop web site of the program
- Learn the use of the equipments

## Beneficiaries

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- Updated Food Analysis and Chemistry laboratory
- Faculty enrichment
- 6 students each years involved in food science related activity
- One student will be funded to finish Master's degree.
- Teaching 200-300 students each year

## Evaluation/expected outcome

- Setting up food chemistry laboratory
- Students participation in food science meetings
- Web site of Food Science Program
- Establishment of collaborative links with USDA, Albany CA